

GRAY LEVEL
ENCODER

- SCANIMATE

(M V P)

ALT EMUS

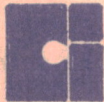
OBS.

SCANIMATE
GRAY LEVEL
ENCODER

- SCANIMATE
(M V P)

OBS.

ALT EMUS



COMPUTER
IMAGE
CORPORATION

CAESAR
MONITOR

0102

012

002

MONITOR VIDEO PROCESSOR (GRAY LEVEL ENCODER)

Level Detectors CVS - ¹²⁵~~103B~~ (via the video gate)

Video from the pick-up camera_A comes into board at Video In. This signal is clamped to ground by Q1 during blanking and fed to the non-inverting input of four comparators (IC1 thru IC4). The second input is the slider pots to adjust the point where each comparator changes state. ~~This card when used in the Gray Level Encoder does not have the gates IC5 and IC7.~~ The outputs of the comparators go directly to the gray level switches.

Gray Level Switches CVS - 111

The four signals from the level detectors go to gates IC1 thru IC3 controlled by four front panel Level Select switches. These switches enable the different gates depending on which switch is active (^(ground)OV_A is active). The gates are resistively summed by resistors R1 thru R10 to form the composite encoded video.

Gray Level Encoder Video Amplifier CVS - 112

This board has 3 dual gated video amplifiers that can be switched to A or B input digitally. The inputs of the first amplifier are the encoded video and analog video. The output of this amplifier will be either the encoded video signal or the analog video depending on the logic level at pin 2 of IC1. The second amplifier will invert or not-invert the video signal depending on the position of the Invert-Non-invert switch. The

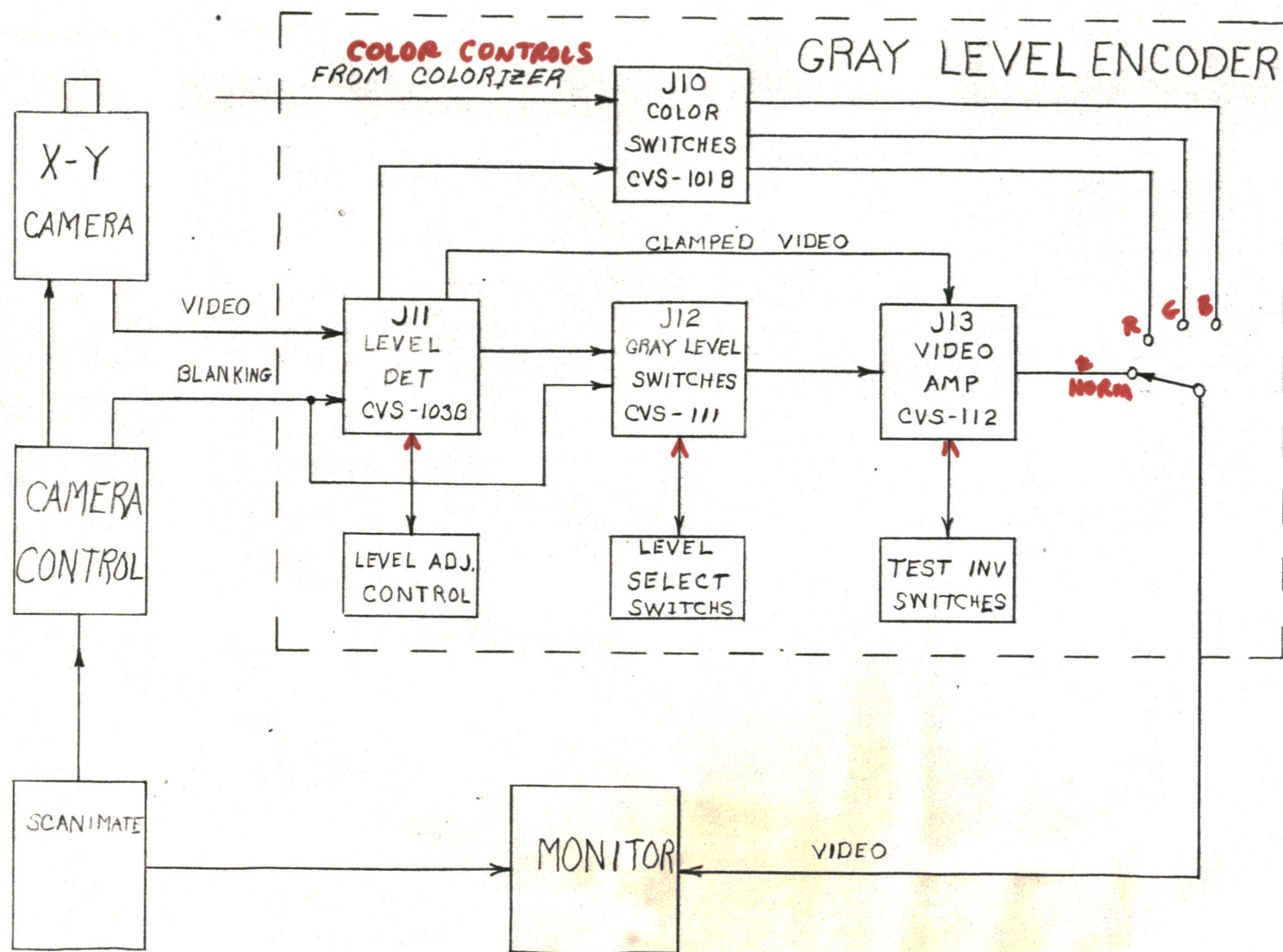
OBS.

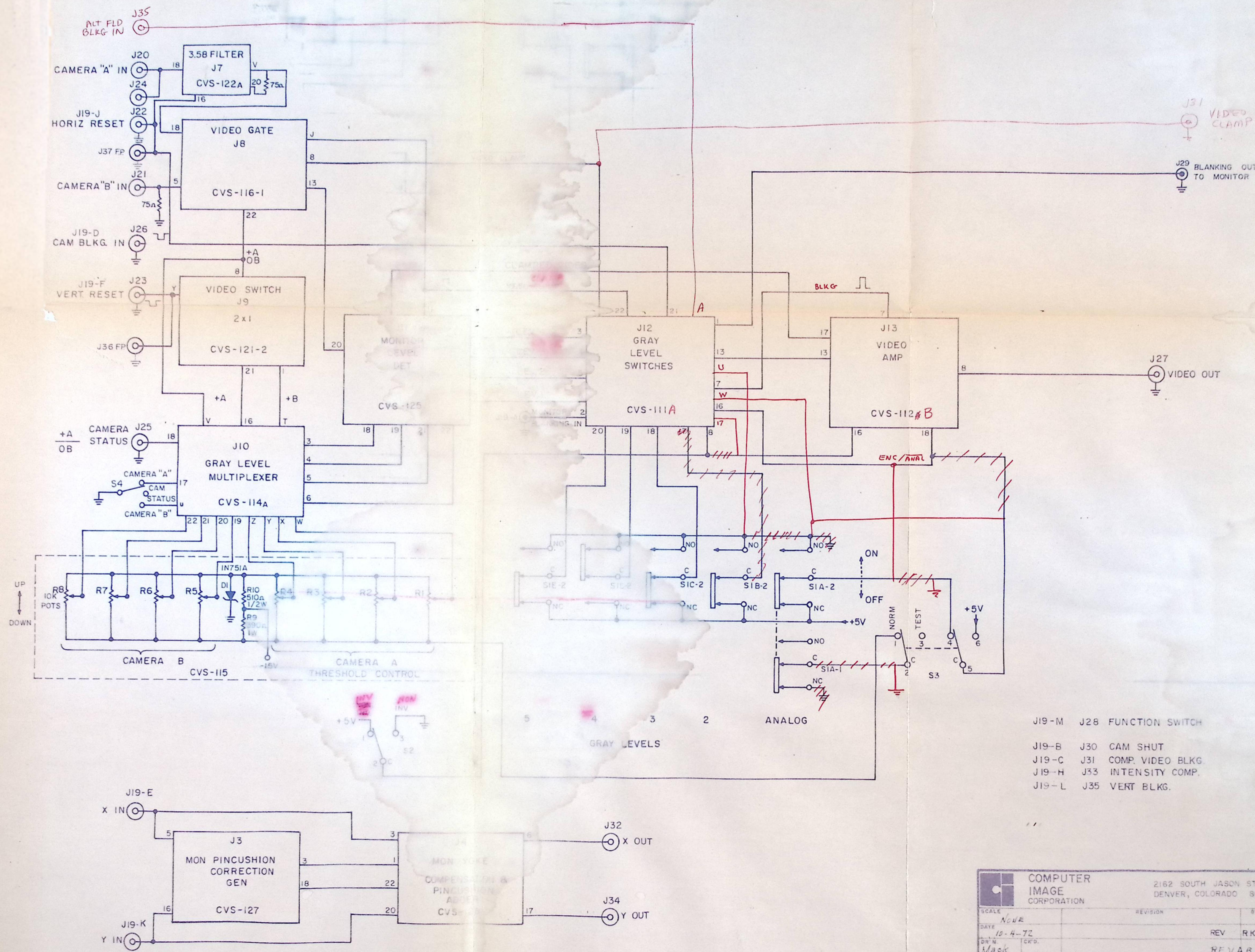
third amplifier is where blanking is added. The output of this card is the video that goes to the X-Y monitor.

The adjustments for this card are as follows:

- | | | | |
|----------------------|---|---|--|
| R4 Encoder Gain | } | { | Adjust for 1V P-P at the output of the card or .8V P-P at IC1 (pin 7). |
| R7 Analog Gain | | | |
| R10 Encoder Level | } | { | Adjust for 0V blanking level at output of IC1 (pin 7). |
| R12 Analog Level | | | |
| R15 Gain Balance | | | Adjust for same gain of Inverted and Non Inverted signal at the output of IC2 (pin 7). |
| R18 Invert Level | } | { | Adjust for a black level of 0V at IC2 (pin 7). |
| R20 Non Invert Level | | | |
| R24 Output Level | | | Adjust for best linearity of final output. |
| R26 Blanking Level | | | Adjust for a 5% pedestal ratio between black level and blanking. |







- J19-M J28 FUNCTION SWITCH
- J19-B J30 CAM SHUT
- J19-C J31 COMP. VIDEO BLKG.
- J19-H J33 INTENSITY COMP.
- J19-L J35 VERT BLKG.

COMPUTER IMAGE CORPORATION		2162 SOUTH JASON STREET DENVER, COLORADO 80223	
SCALE	DATE	REVISION	BY
NONE	10-4-72		
DR. M. J. B. K.	CHKD.	REV	R.K.P.
APPROV.		REV	4/8/77
TITLE		NO.	
MONITOR VIDEO PROCESSOR WIRING DIAGRAM		CVSW 102A-2	

MVP

J

HOR
DELAY

HD

HOR.
WIDTH

H W

VERT.
DELAY

V D

VERT.
WIDTH

V W

22

H. Reset

0.2 ✓

3 ✓

—

—

23

V. Reset

—

—

100 ✓

105 ✓

26

Cam Blkg

0.2 ✓

7 ✓

100 ✓

105 ✓

29

Mon Blkg

0 ✓

8 ✓

0

300-1000

w/window

31

Vid Clamp

0.7 ✓

6 ✓

—

300-1000

35

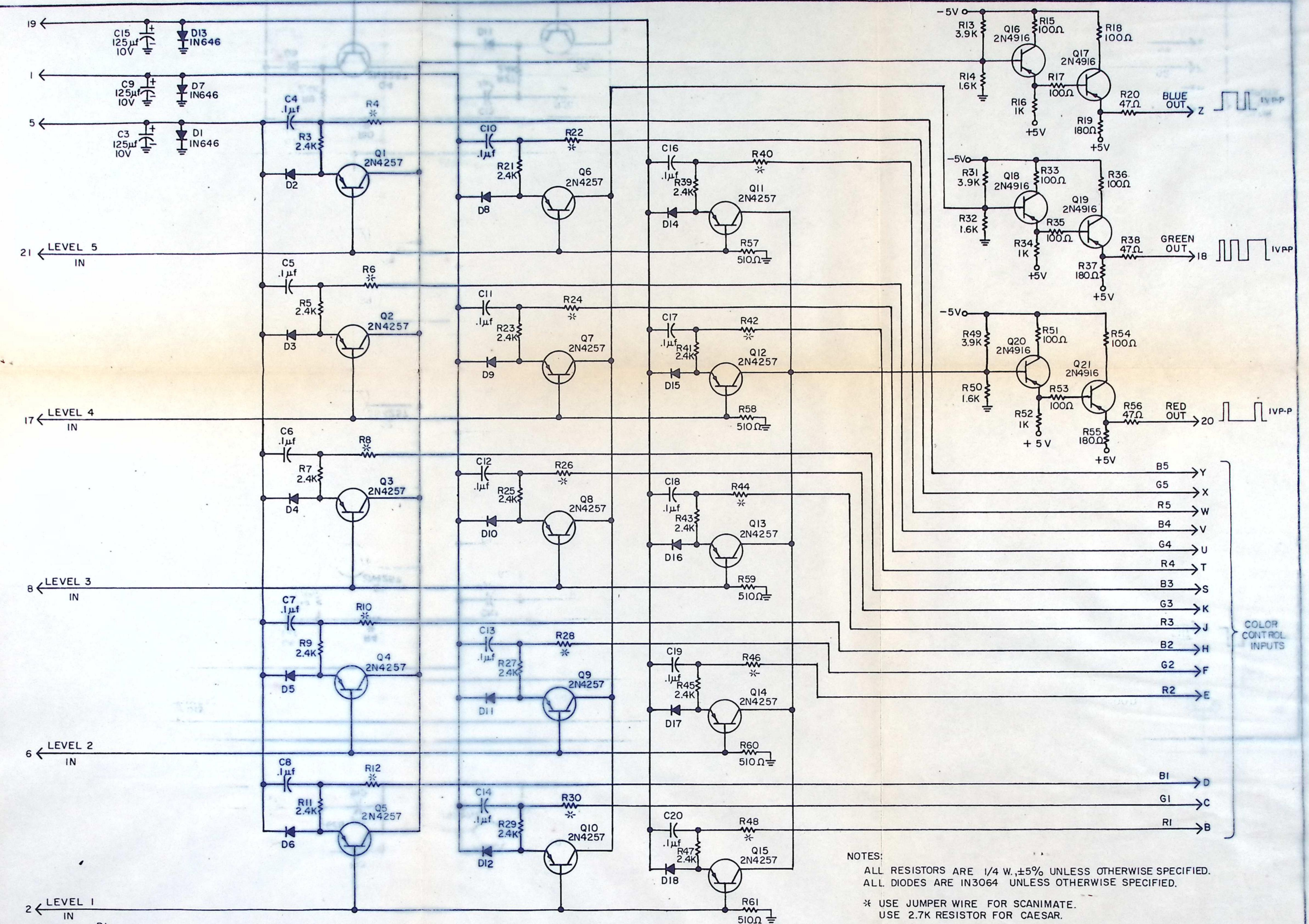
Vert Blkg

—

—

0

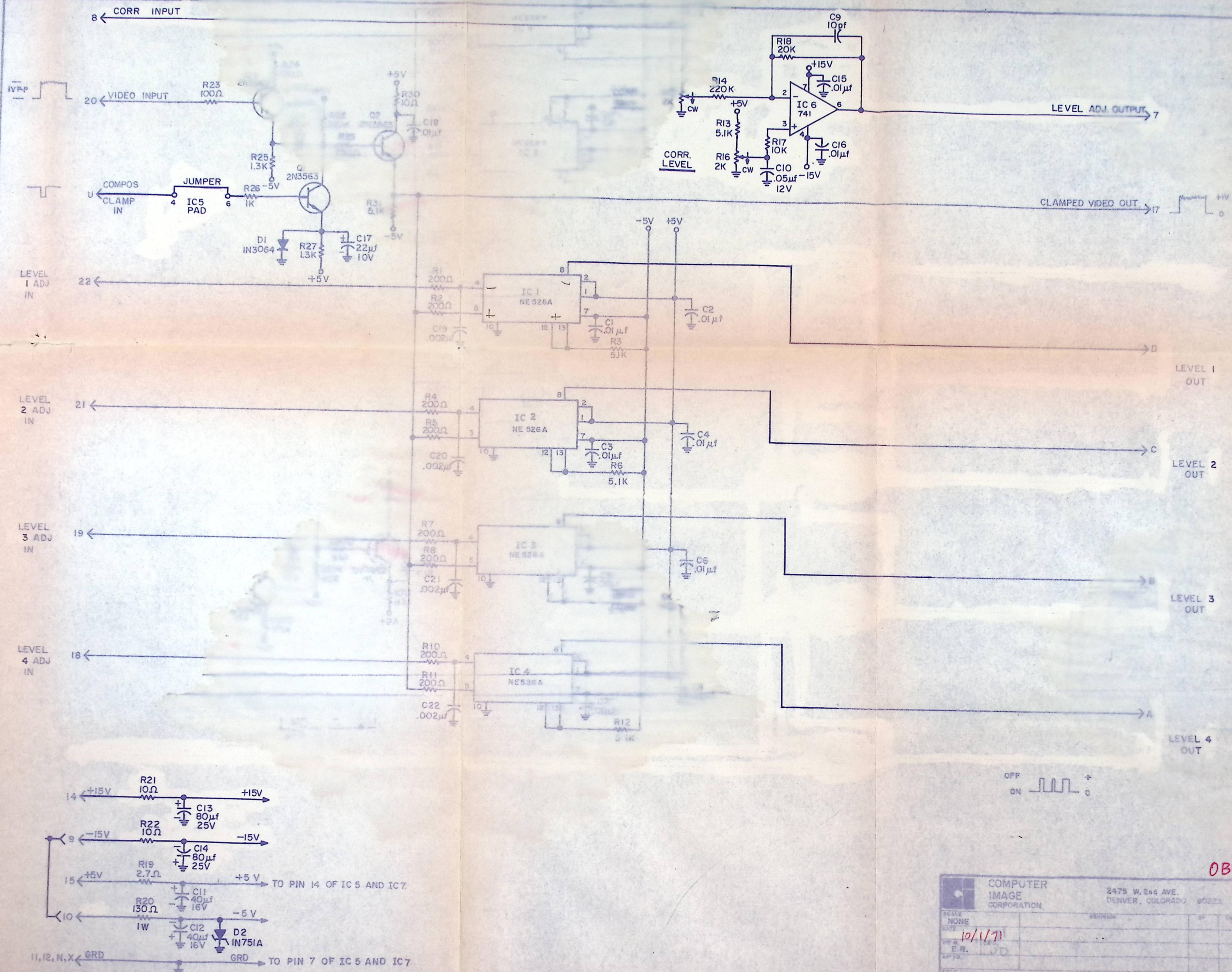
300-1000



* COLOR SEPARATION
IN GRAY LEVEL ENCODER

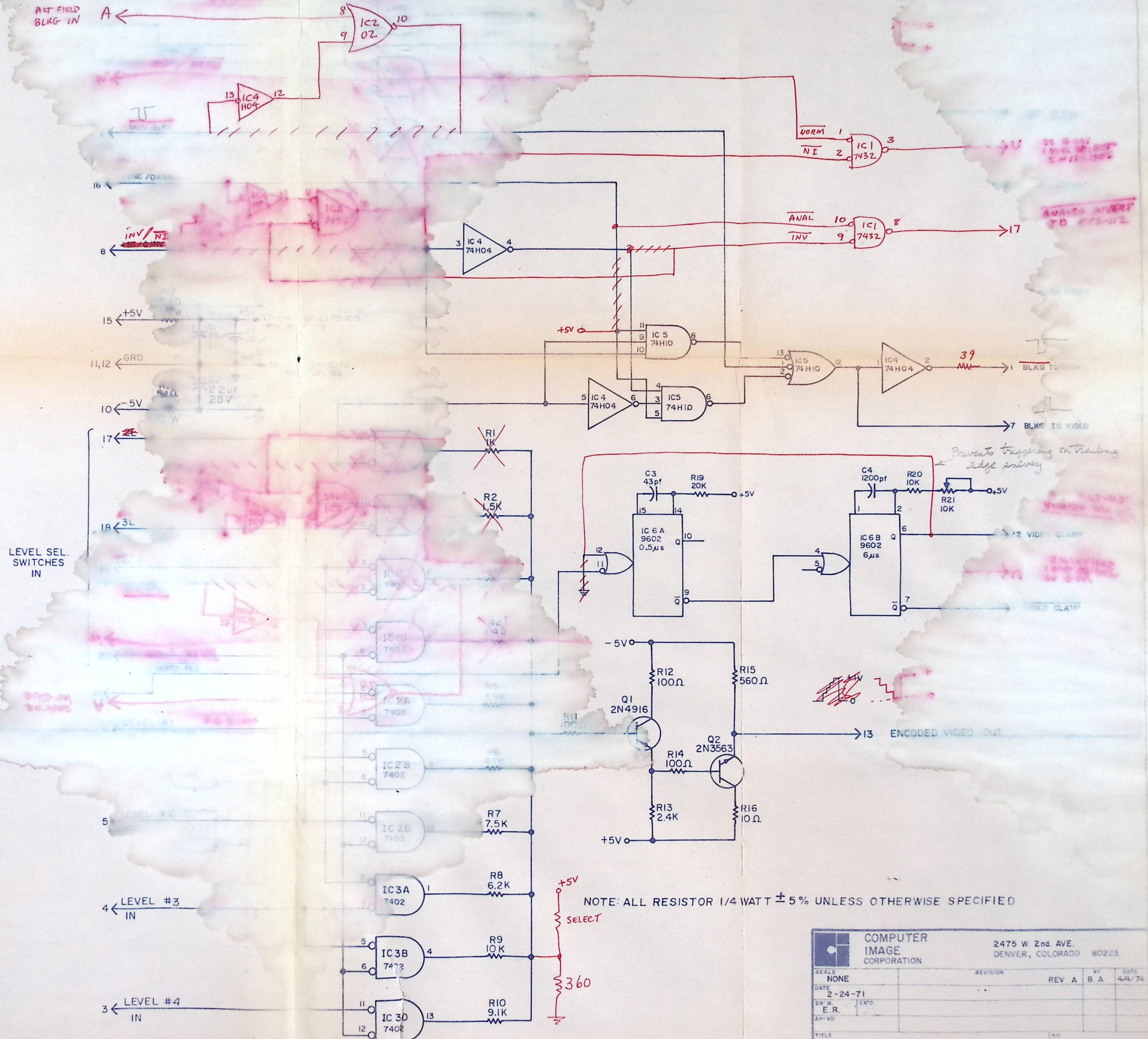
NOTES:
ALL RESISTORS ARE 1/4 W, ±5% UNLESS OTHERWISE SPECIFIED.
ALL DIODES ARE IN3064 UNLESS OTHERWISE SPECIFIED.
* USE JUMPER WIRE FOR SCANIMATE.
USE 2.7K RESISTOR FOR CAESAR.

COMPUTER IMAGE CORPORATION		2475 W. 2nd AVE. DENVER, COLORADO 80223.	
SCALE	NONE	REVISION	
DATE	3-1-71	BY	
DR'N	ER	CK'D	
AP'VD			
TITLE		NO.	
COLOR SWITCHES (COLORIZER)		CVS-101B	

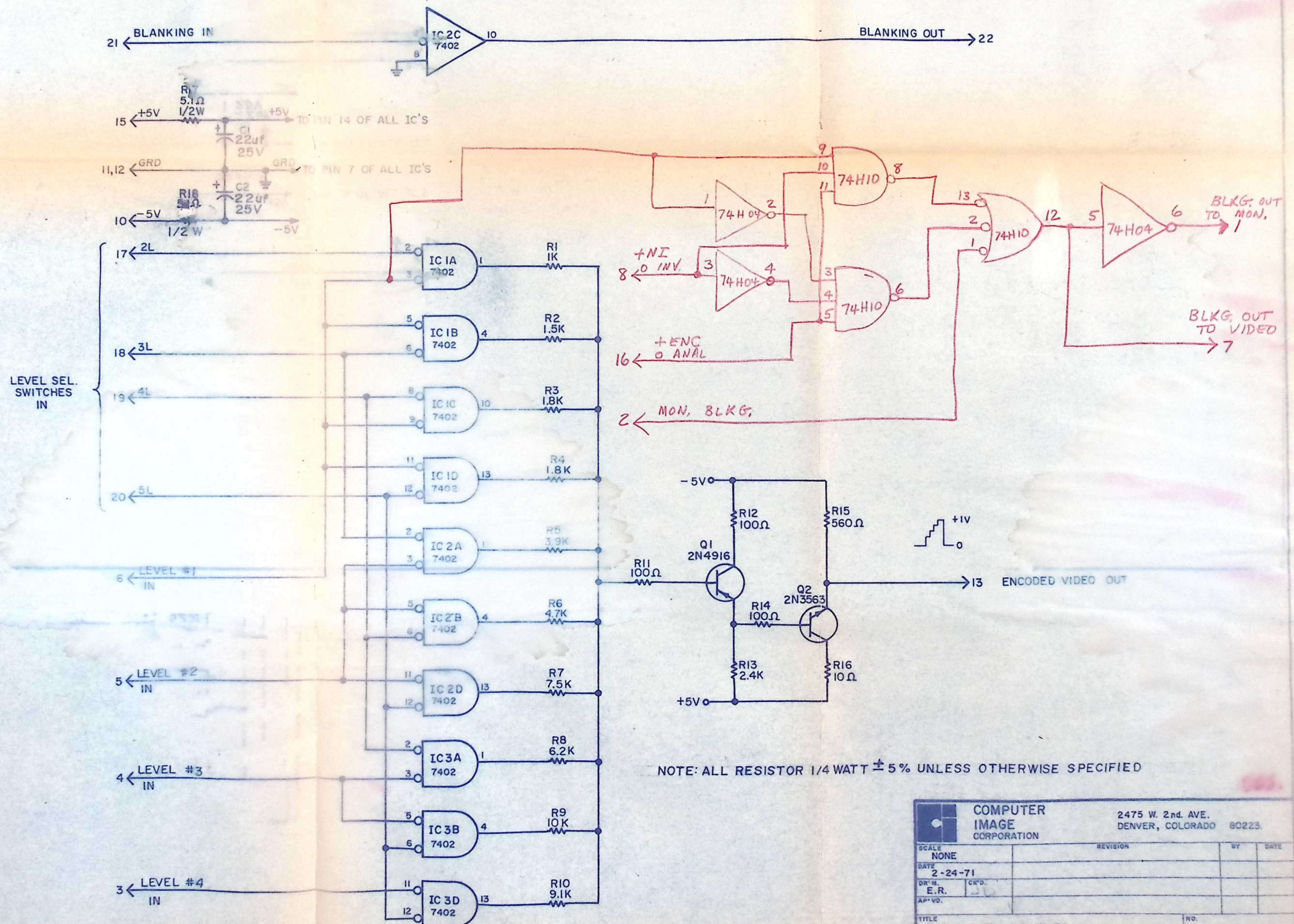


OBS.

COMPUTER IMAGE CORPORATION		2475 W. 2nd AVE. DENVER, COLORADO 80223	
SCALE NONE	DATE 10/1/71	REVISED	BY
DR. E.R.	APPROVED		
THIS LEVEL DETECTORS (EXCLUSIVE)		CVS-103B-1	
(GRAY LEVEL ENCODER)			



COMPUTER IMAGE CORPORATION		2475 W. 2nd. AVE. DENVER, COLORADO 80223.	
SCALE NONE	REVISION	REV A	BY B A
DATE 2-24-71			DATE 4/4/74
DR'N E. R.	CHK'D		
AP'VD			
TITLE GRAY LEVEL SWITCHES		NO CVS-111A	



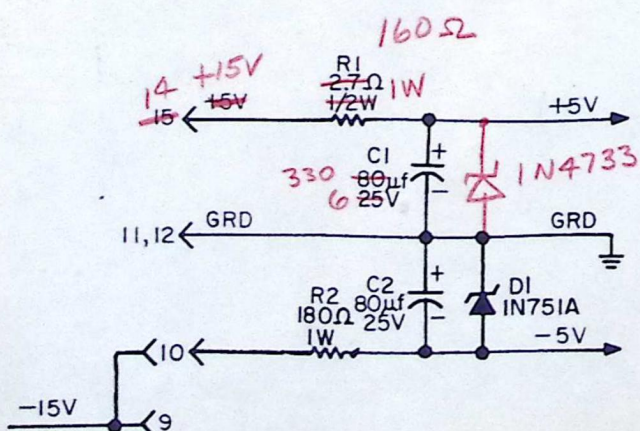
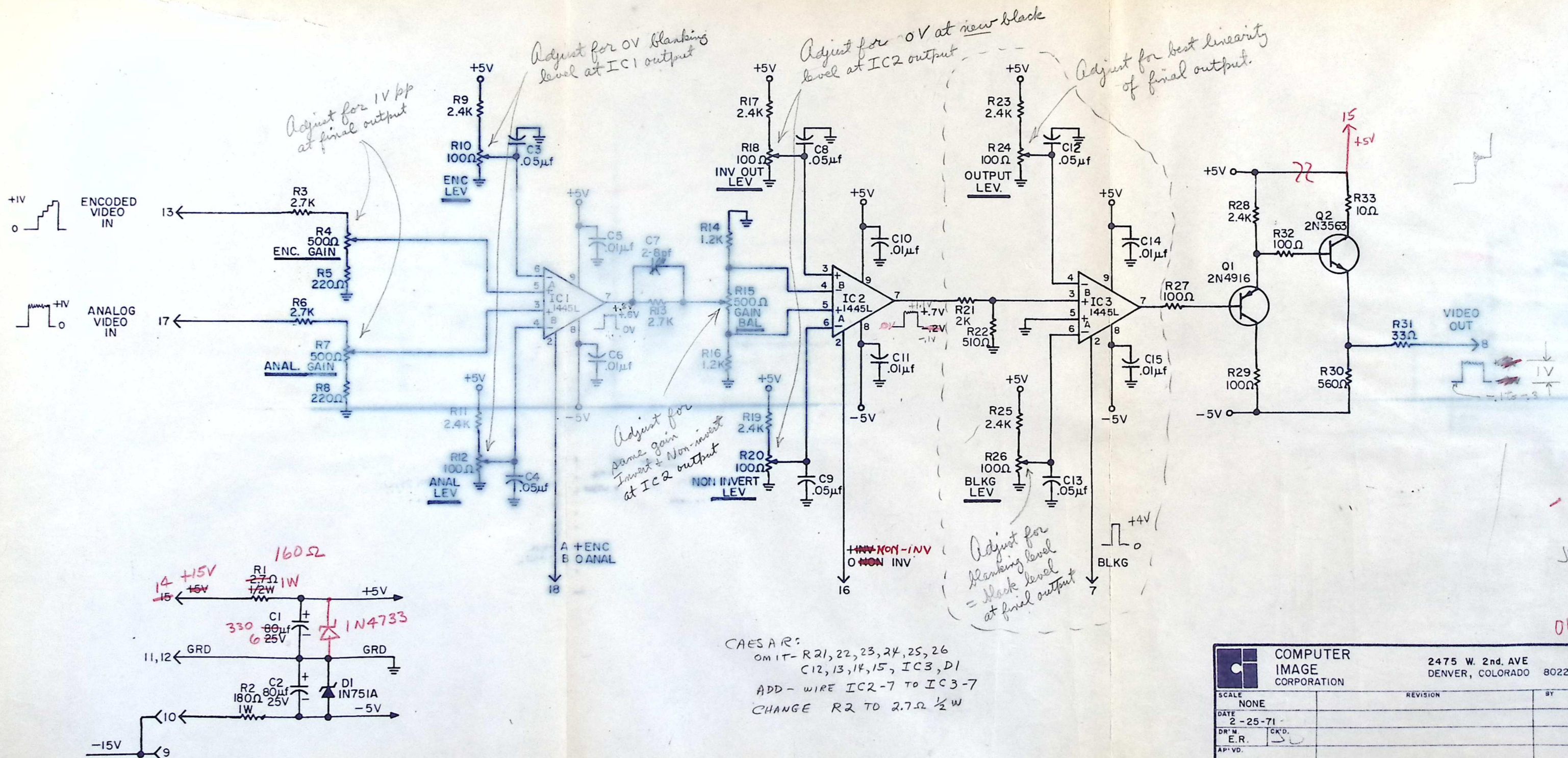
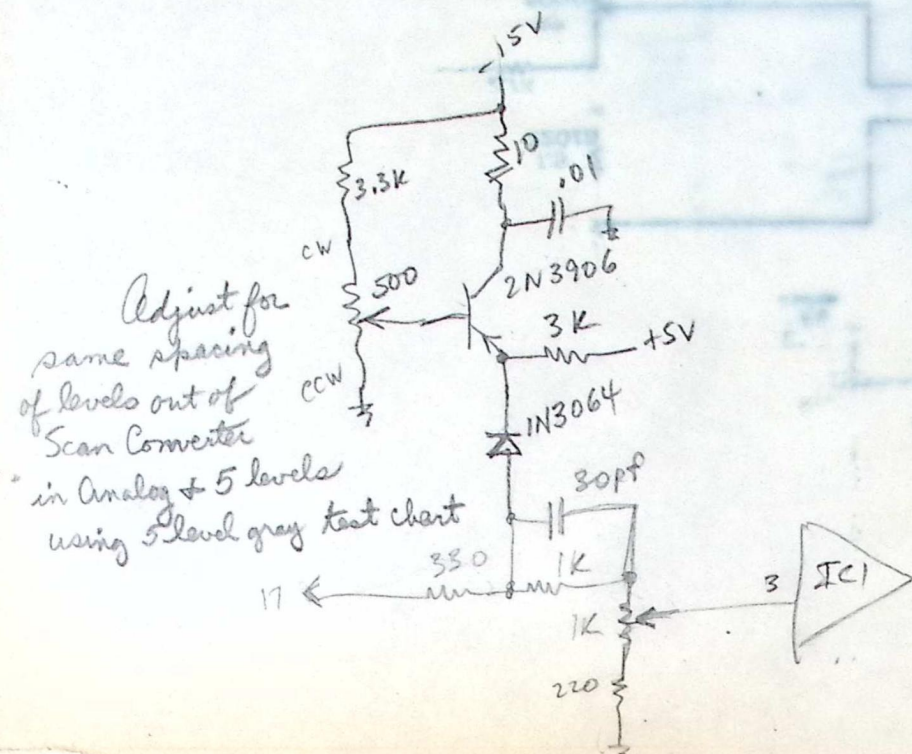
COMPUTER IMAGE CORPORATION		2475 W. 2nd. AVE. DENVER, COLORADO 80223.	
SCALE NONE	REVISION	BY	DATE
DATE 2-24-71			
DR'N. E.R.	CR'D.		
AP'VD.			
TITLE GRAY LEVEL SWITCHES		NO. CVS-111A	

Monitor Video Processor

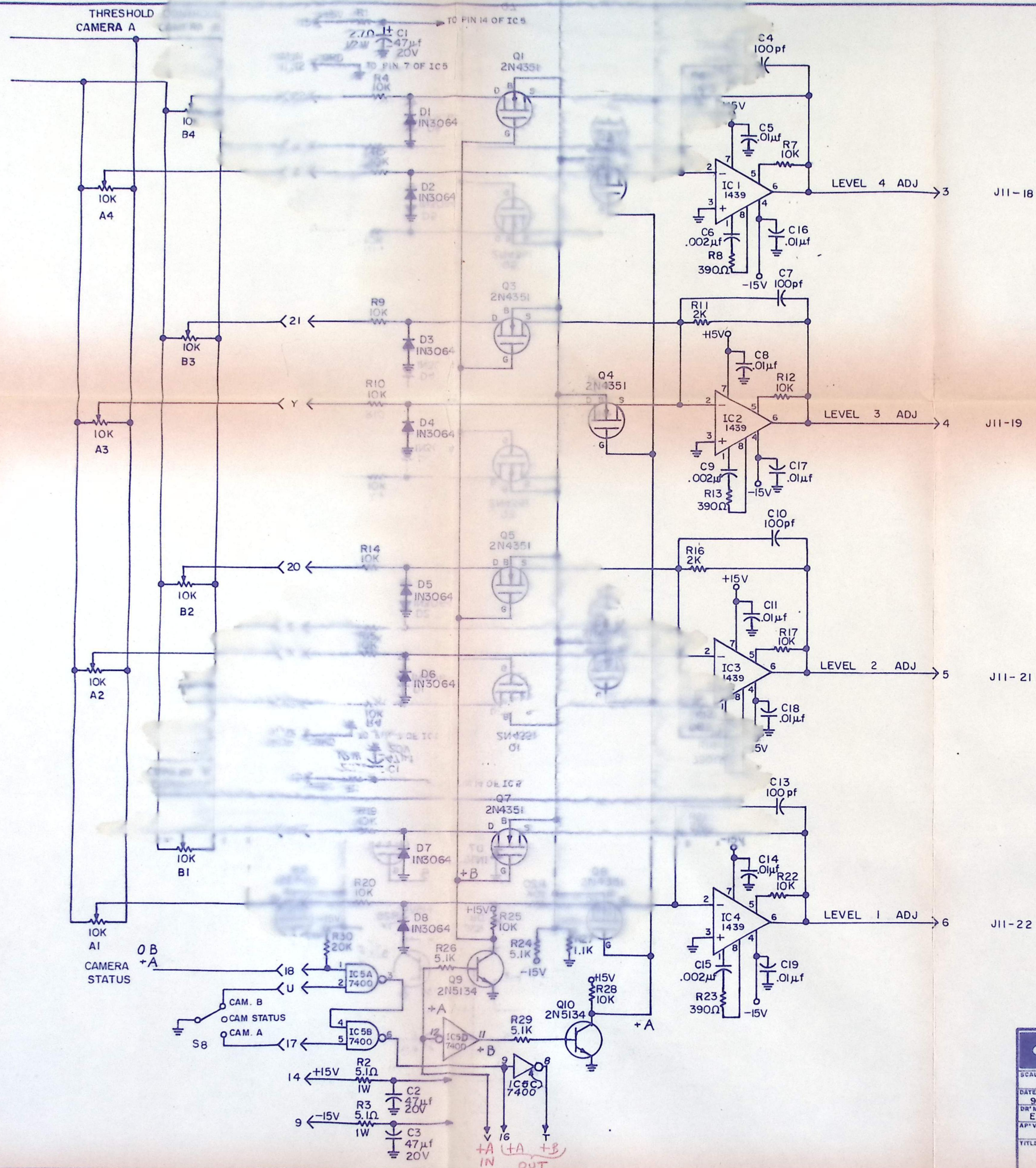
CVS-112B Adjustments

OBS.

1. Have 5 level artwork video, and use System Monitor to look at video.
2. Set switches to LEVEL SELECT 1, NORMAL. Adjust GAIN BAL for same gain in INVERT as NON-INVERT.
- 4~~3~~. Set switch to LEVEL SELECT 2. Adjust ENC. LEVEL for ~~same white level in TEST and INVERT as NORMAL and NON-INVERT.~~ *1V p-p from blanking to white level.*
- 3 4. Adjust BLANKING LEVEL for ~~0.3V~~ ⁰ level during blanking.
5. Set switches to LEVEL SELECT 5, NORMAL, NON-INVERT. ~~Adjust OUTPUT LEVEL for 1V p-p from blanking to white. At the same time adjust ENC. GAIN for best spacing of all levels out of Scan Converter Camera. Go back and forth between these two.~~ (Be sure the Monitor Intensity (CRT Bias) is set for best intensity compensation)
- ~~6. Repeat steps 3 and 5.~~
- 4~~5~~. Set switches to LEVEL SELECT 1. Adjust ANAL. GAIN and ANAL LEVEL for video out of MVP to be the same as camera video input at J20 or J21.



COMPUTER IMAGE CORPORATION		2475 W. 2nd. AVE DENVER, COLORADO 80223.	
SCALE NONE	REVISION	BY	DATE
DATE 2-25-71	DR'N E.R.	CR'D.	
TITLE GRAY LEVEL ENCODER VIDEO AMPS COLORIZER		NO. CVS-112A	



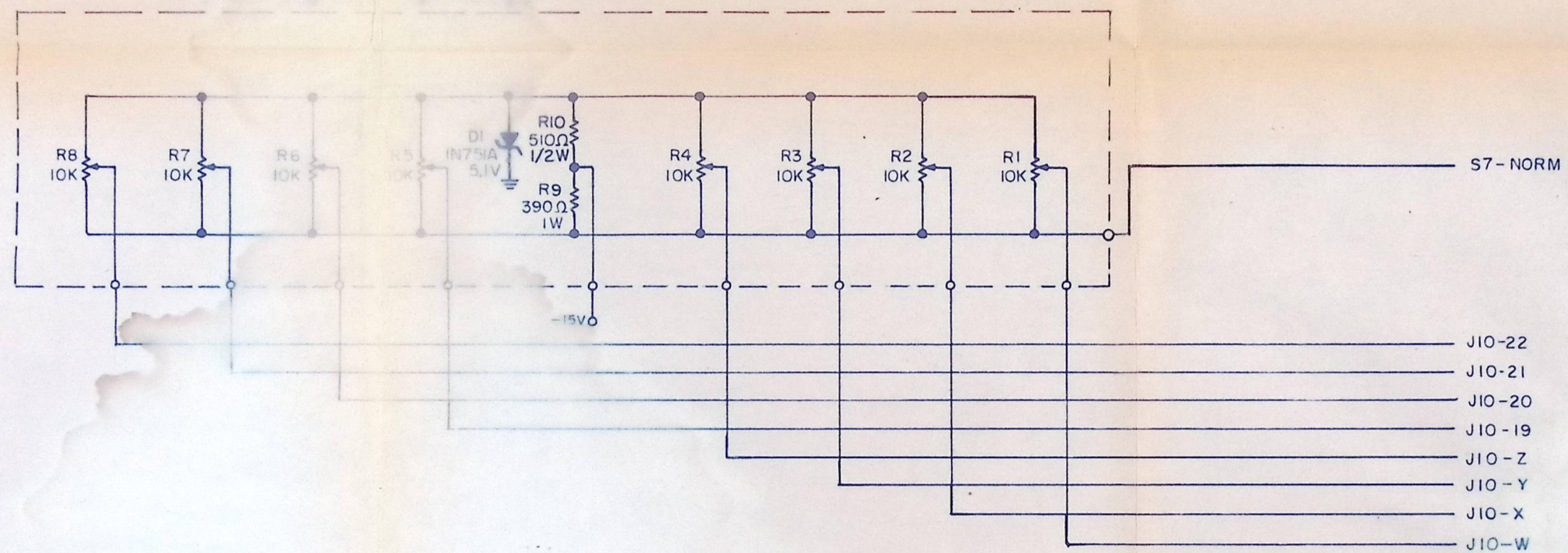
J11-18

J11-19

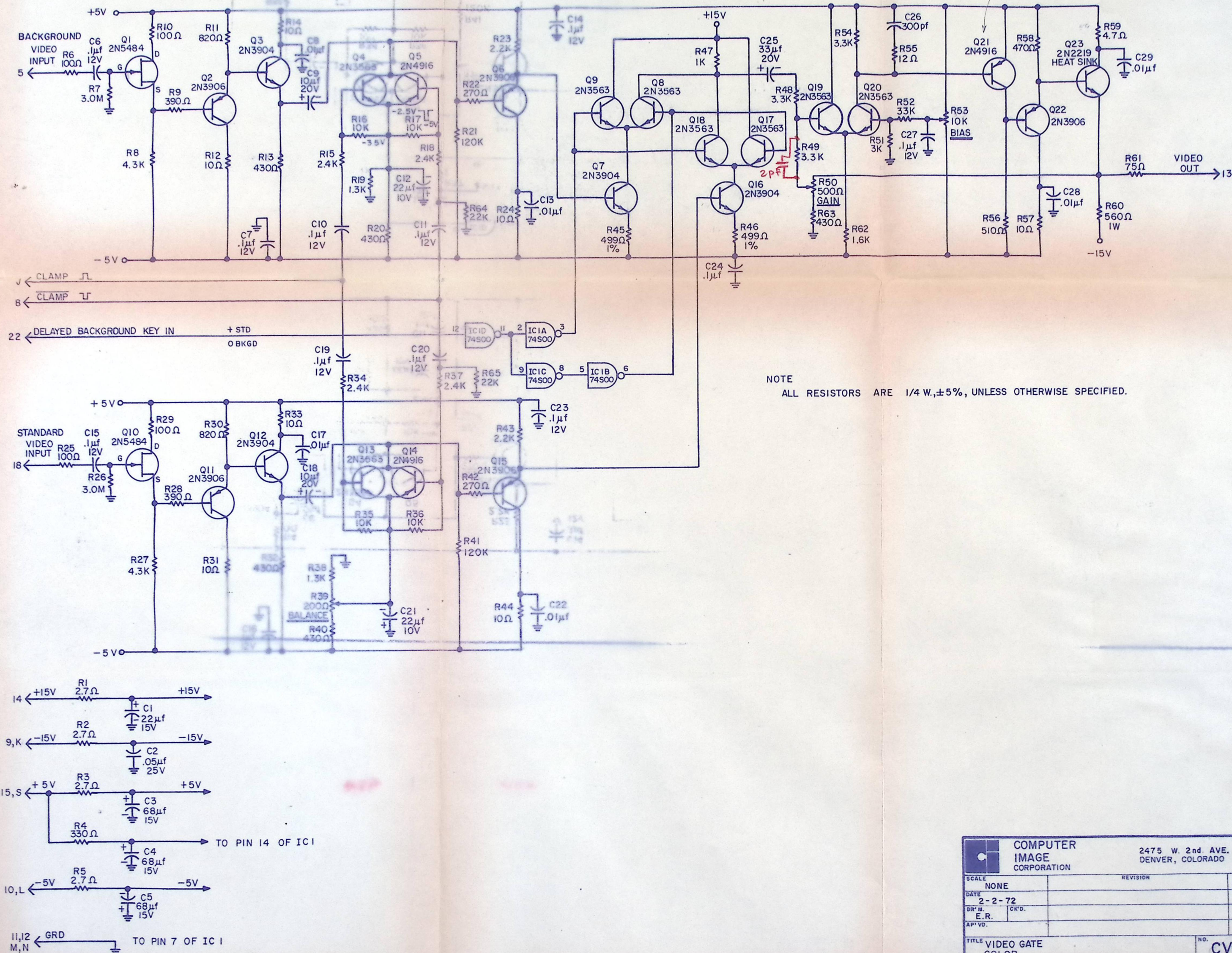
J11-21

J11-22

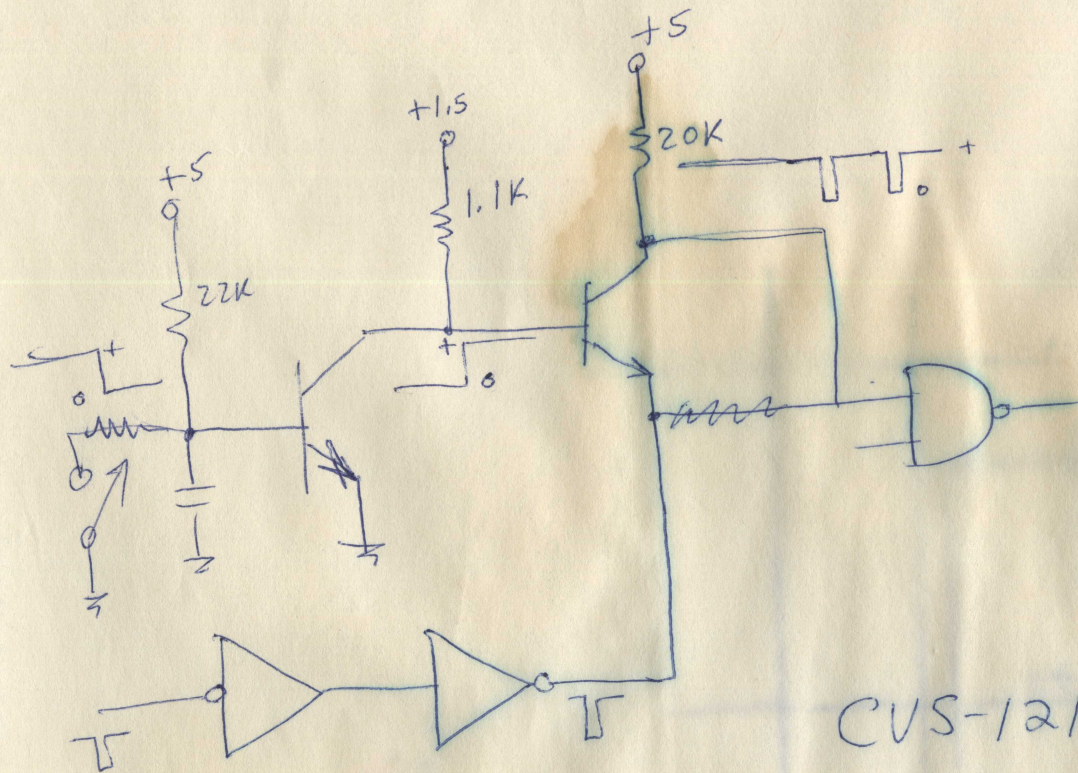
COMPUTER IMAGE CORPORATION		2475 W. 2nd AVE. DENVER, COLORADO 80223	
SCALE	NONE	REVISION	BY
DATE	9-20-71	BY	DATE
DRM	E.R.	CHKD.	
APPROV.			
TITLE		NO.	
GRAY LEVEL MULTIPLEXER		CVS-114A	



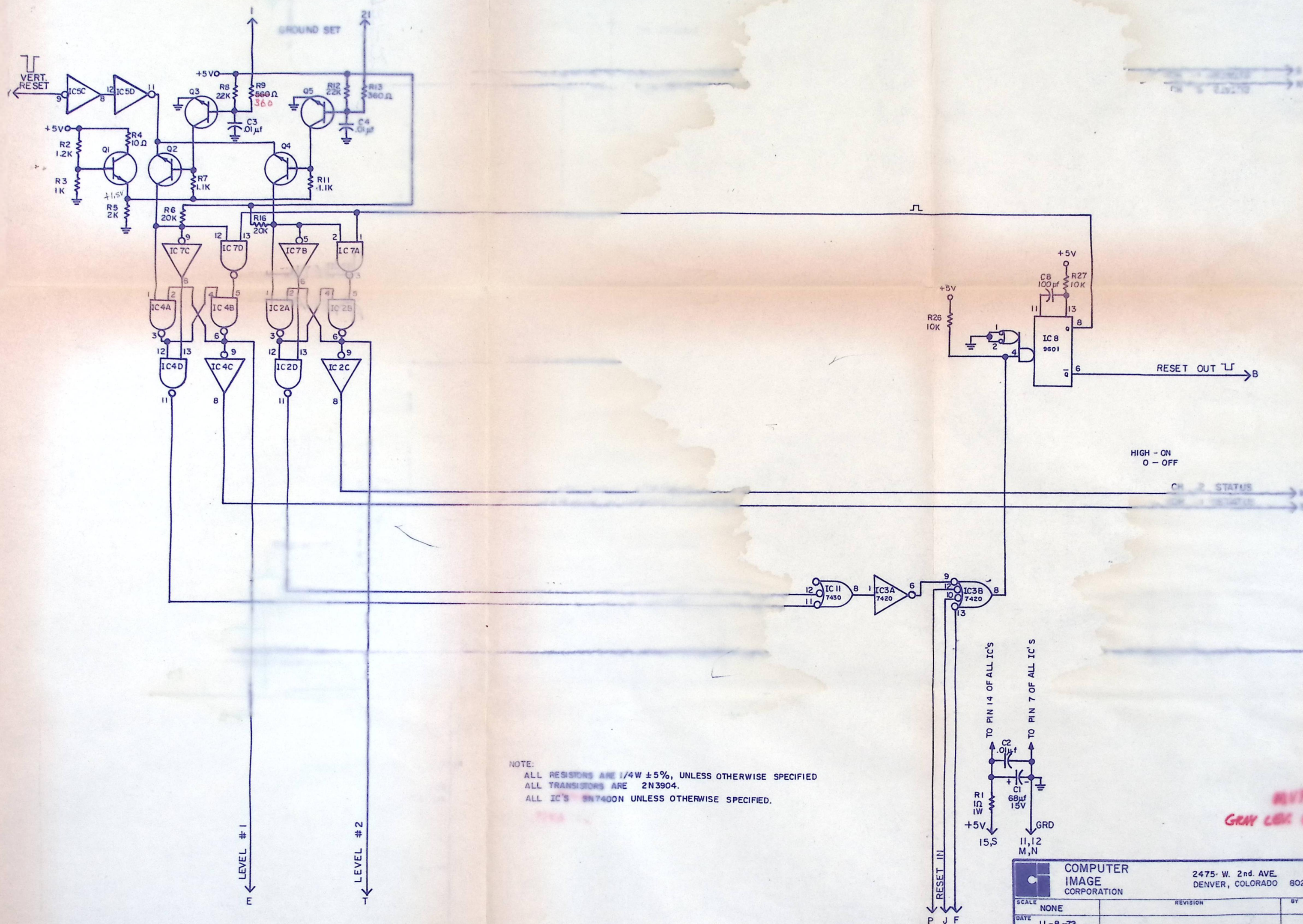
 COMPUTER IMAGE CORPORATION		2475 W. 2nd AVE. DENVER, COLORADO 80223	
SCALE	NONE	REVISION	BY
DATE	9-20-71		DATE
			2-1973
DR'W	E.R.	CHK'D	
AP'VD			
TITLE THRESHOLD CONTROL VIDEO PROCESSOR			NO CVS-115



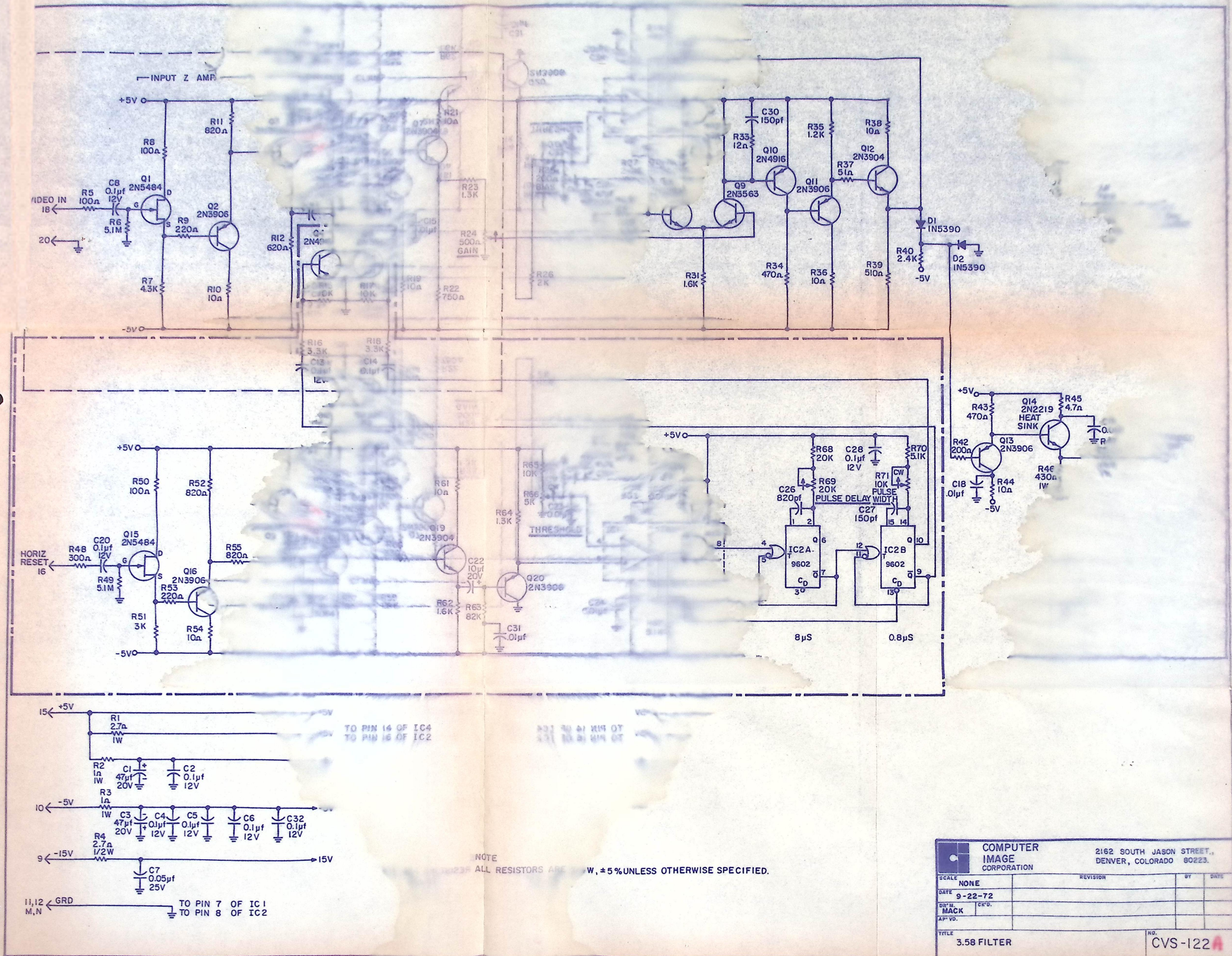
COMPUTER IMAGE CORPORATION		2475 W. 2nd AVE. DENVER, COLORADO 80223	
SCALE	NONE	REVISION	BY
DATE	2-2-72		
DR'N	E.R.	CR'D	
AP'VD			
TITLE VIDEO GATE COLOR		NO. CVS-116-1	



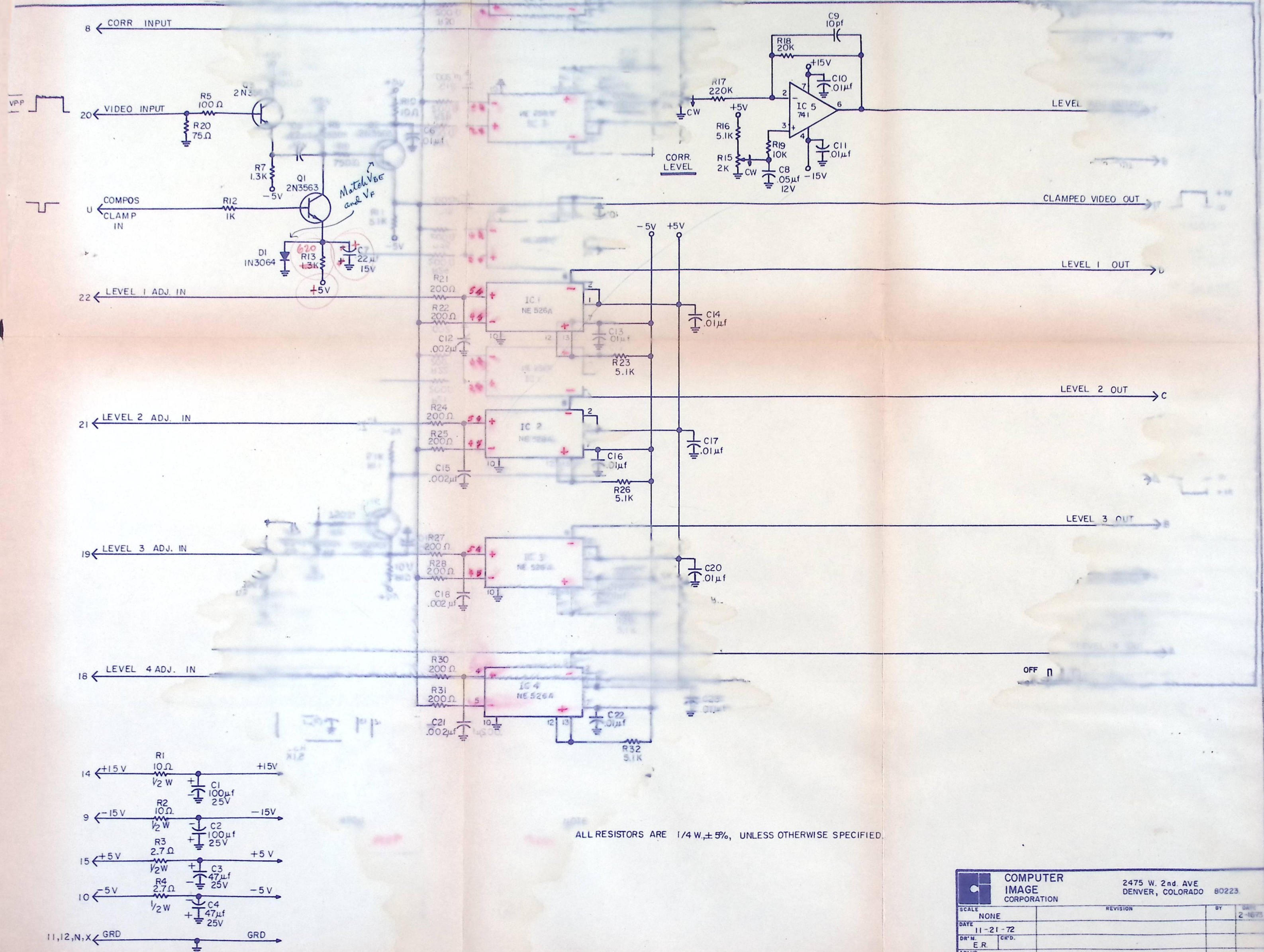
CVS-121-2



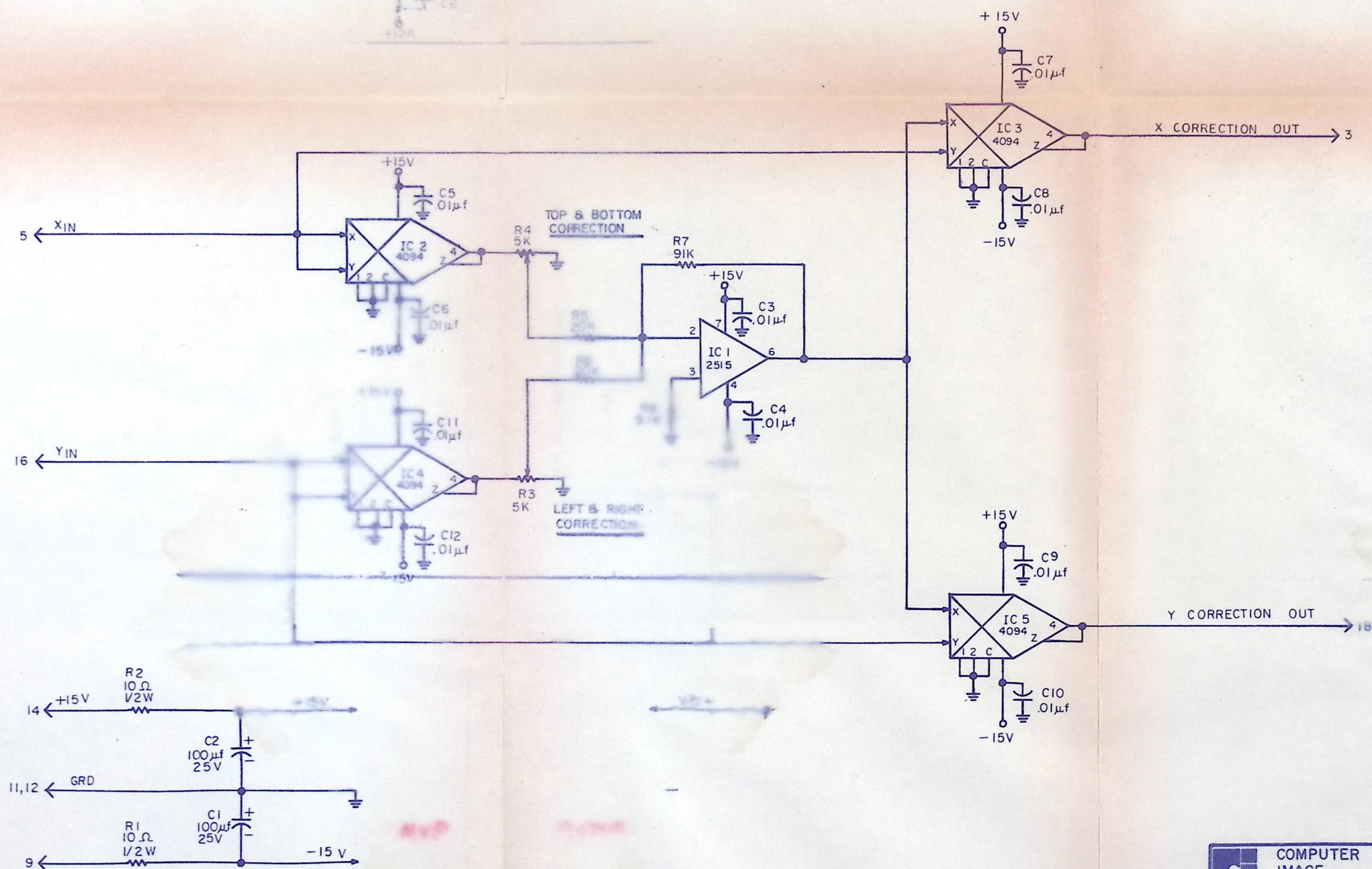
REV
GRAY LOG ONE.



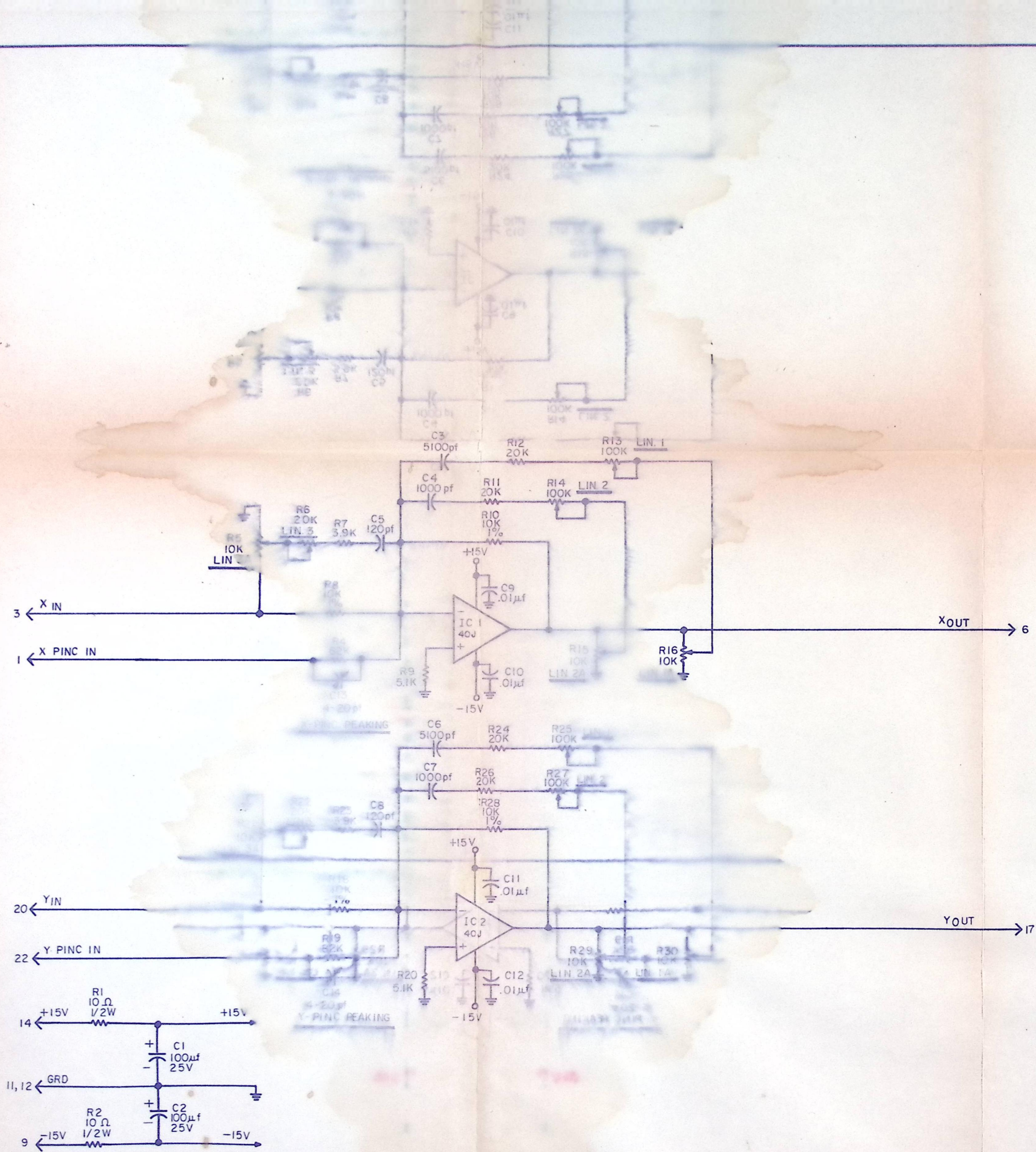
COMPUTER IMAGE CORPORATION 2162 SOUTH JASON STREET, DENVER, COLORADO 80223.	
SCALE	NONE
DATE	9-22-72
BY	MACK
APPROVED	
TITLE	3.58 FILTER
NO.	CVS-122A

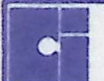


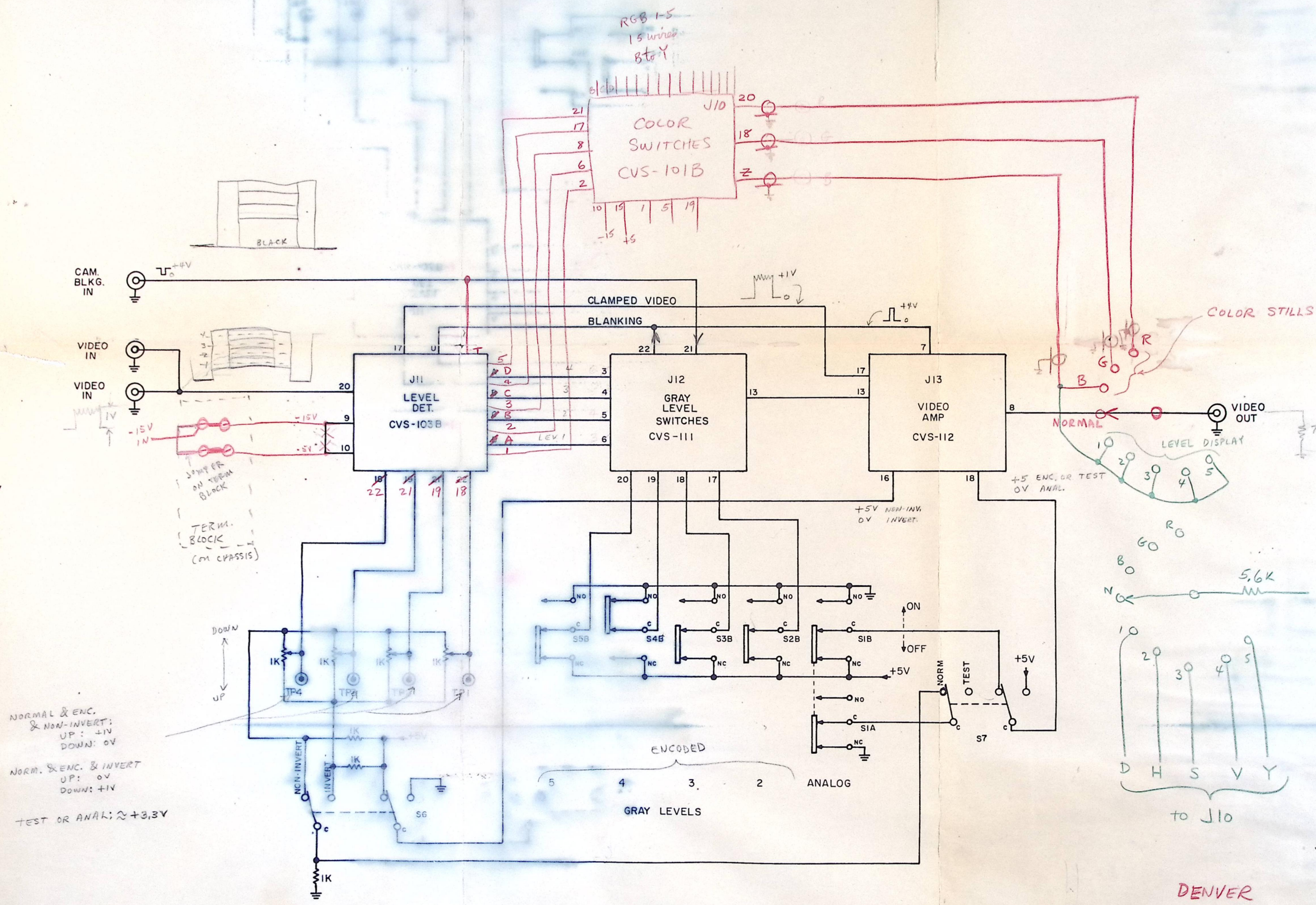
COMPUTER IMAGE CORPORATION		2475 W. 2nd. AVE DENVER, COLORADO 80223	
SCALE	NONE	REVISION	BY
DATE	11-21-72	DR'N	CR'D.
AP'VD.			
TITLE LEVEL DETECTORS VIDEO PROCESSOR		NO. CVS-125	



COMPUTER IMAGE CORPORATION		2475 W. 2nd AVE. DENVER, COLORADO 80223.	
SCALE	NONE	REVISION	BY
DATE	11-19-72		
DR. N.	E. R.		
AP. VD.			
TITLE		NO.	
MON. PIN CUSHION CORRECTION GENERATOR		CVS-127	



 COMPUTER IMAGE CORPORATION		2475 W. 2nd. AVE. DENVER, COLORADO 80223	
SCALE	NONE	REVISION	BY
DATE	10-19-72		
DR. W. E. R.	CRD.		
AP. V.D.			
TITLE MON YOKE COMP. & PINCUSHION ADDER		NO. CVS-128	

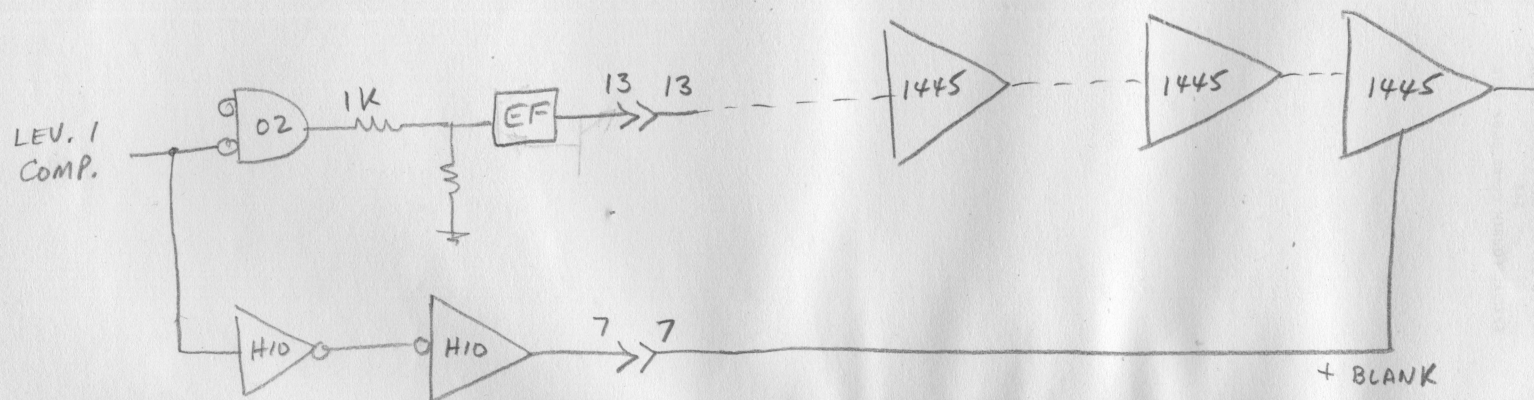


NORMAL & ENC.
& NON-INVERT;
UP: +1V
DOWN: 0V

NORM. & ENC. & INVERT
UP: 0V
DOWN: +1V

TEST OR ANAL; ~+3.3V

		COMPUTER IMAGE CORPORATION 2475 W. 2nd. AVE. DENVER, COLORADO 80223.	
SCALE	NONE	REVISION	BY
DATE	2-24-71		
DR'M	E.R.	CK'D	
AP'VD			
TITLE		NO	
GRAY LEVEL ENCODER COLORIZER		CVS W-102	



CUS-111

MVP

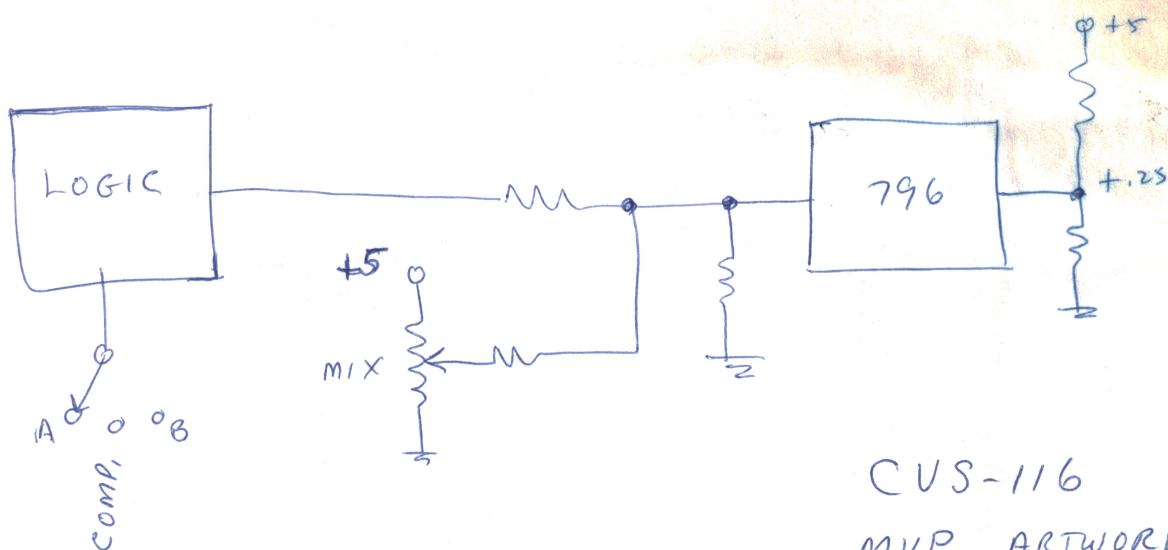
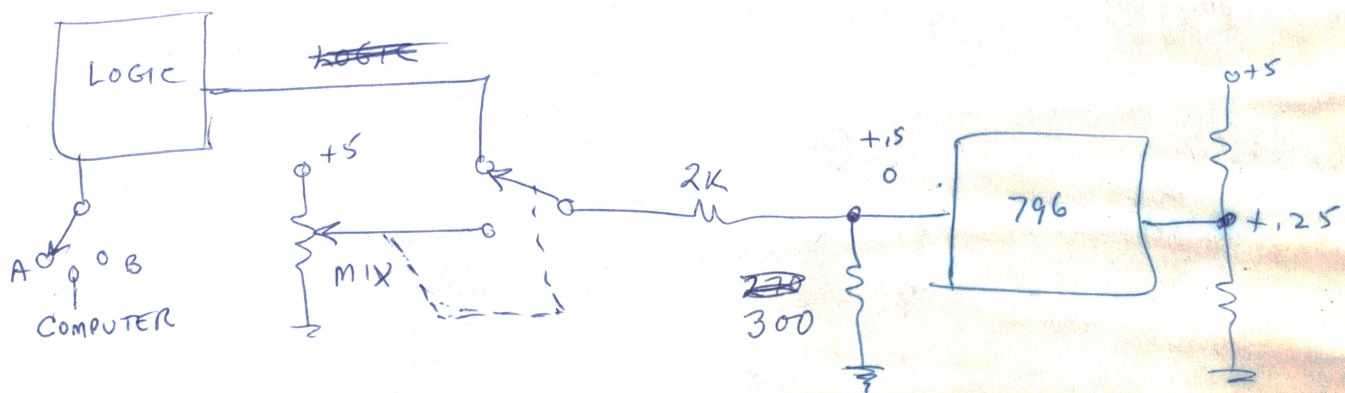
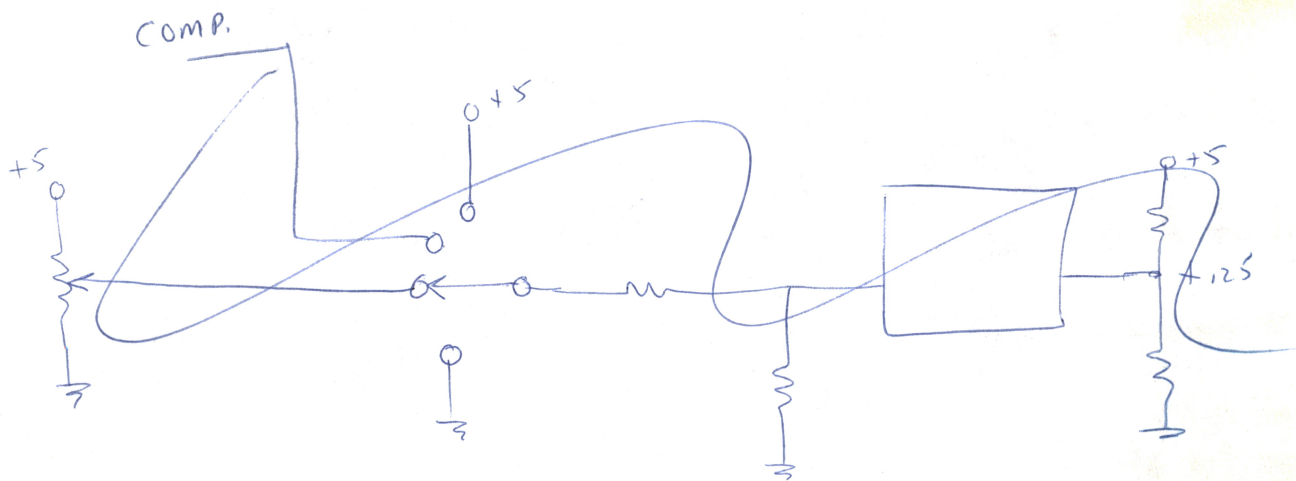
**UNITED STATES
GOVERNMENT PRINTING OFFICE**

**SUPERINTENDENT OF DOCUMENTS
PUBLIC DOCUMENTS DEPARTMENT
WASHINGTON, D.C. 20402**

OFFICIAL BUSINESS

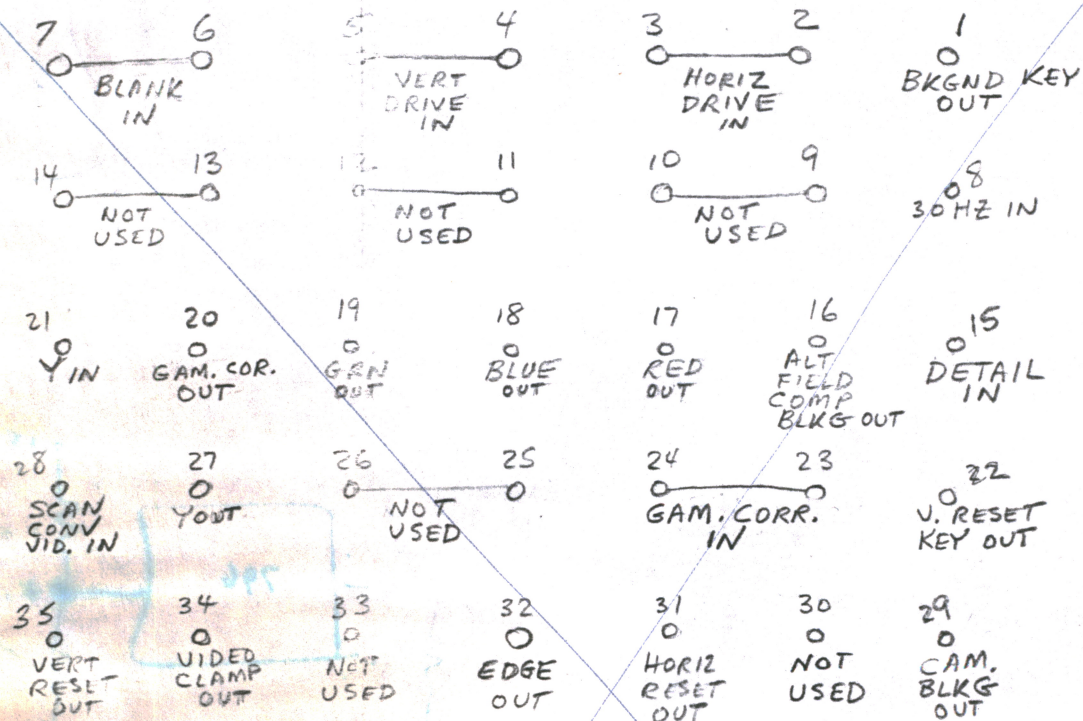
**POSTAGE AND FEES PAID
FEDERAL COMMUNICATIONS COMMISSION
554
SPECIAL FOURTH CLASS BOOK RATE**





CVS-116
MVP ARTWORK
CAMERA MIXER

10P



Caesar Colorizer Nest BNC's

View from wiring side of back plate.

Scanimate MVP

Card mods

CVS-112B J13

Interchange 5+6 on IC1 ✓

Remove R23,24

CVS-125 J11

Interchange 4+5 on IC1 to 4 ✓

CVS-111 J12

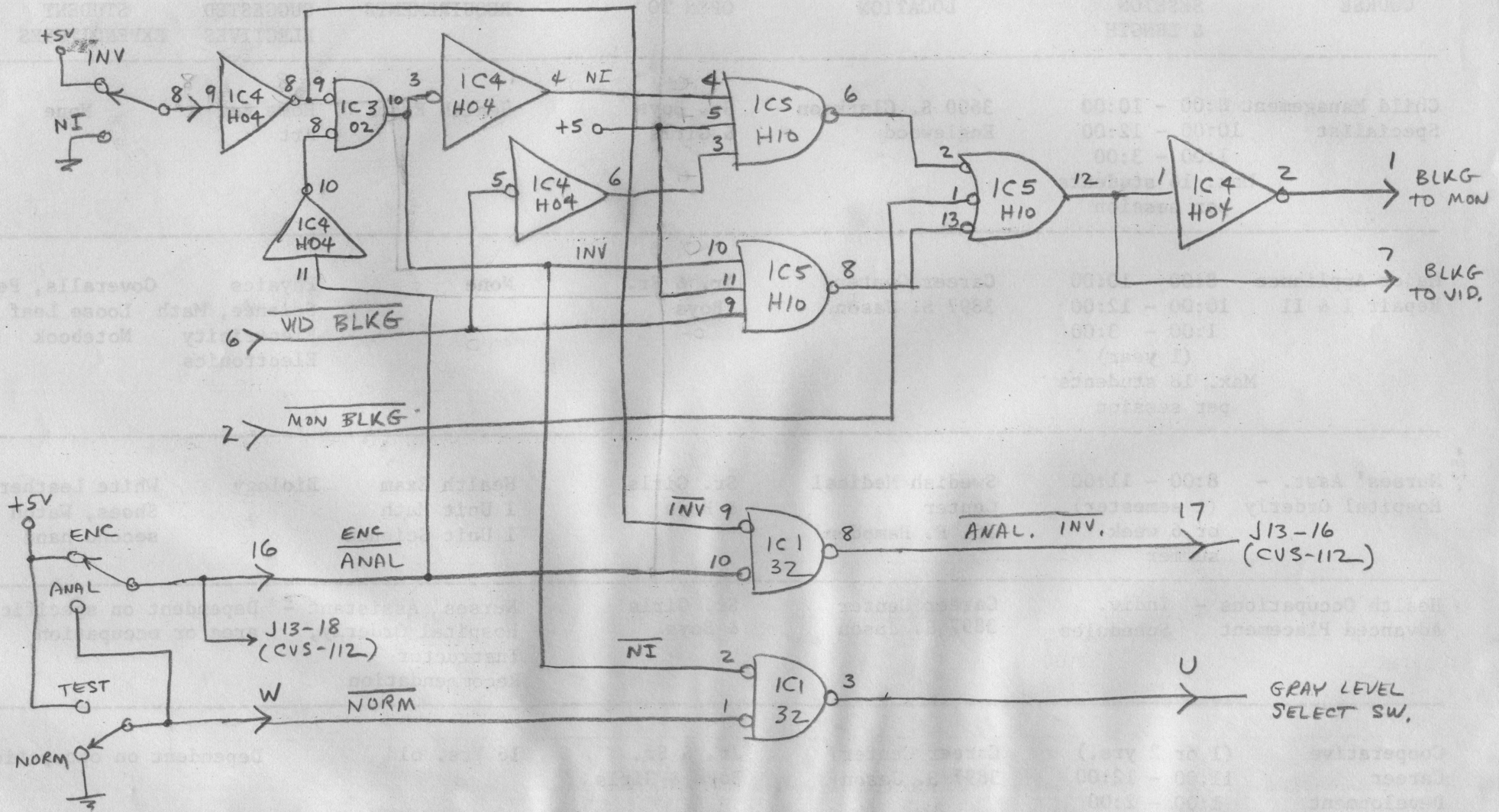
Remove ~~IC1~~ R 1,2,3,4 ✓

Change IC1 from 02 to 32 ✓

Add 360 Ω ✓

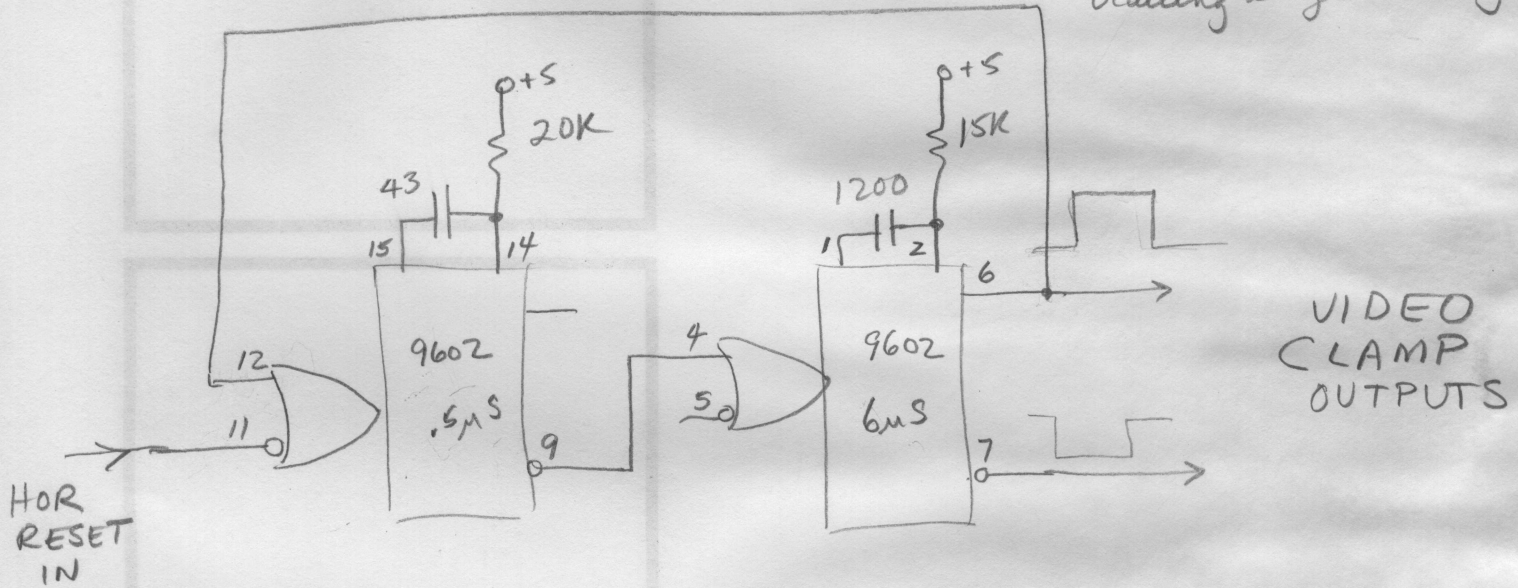
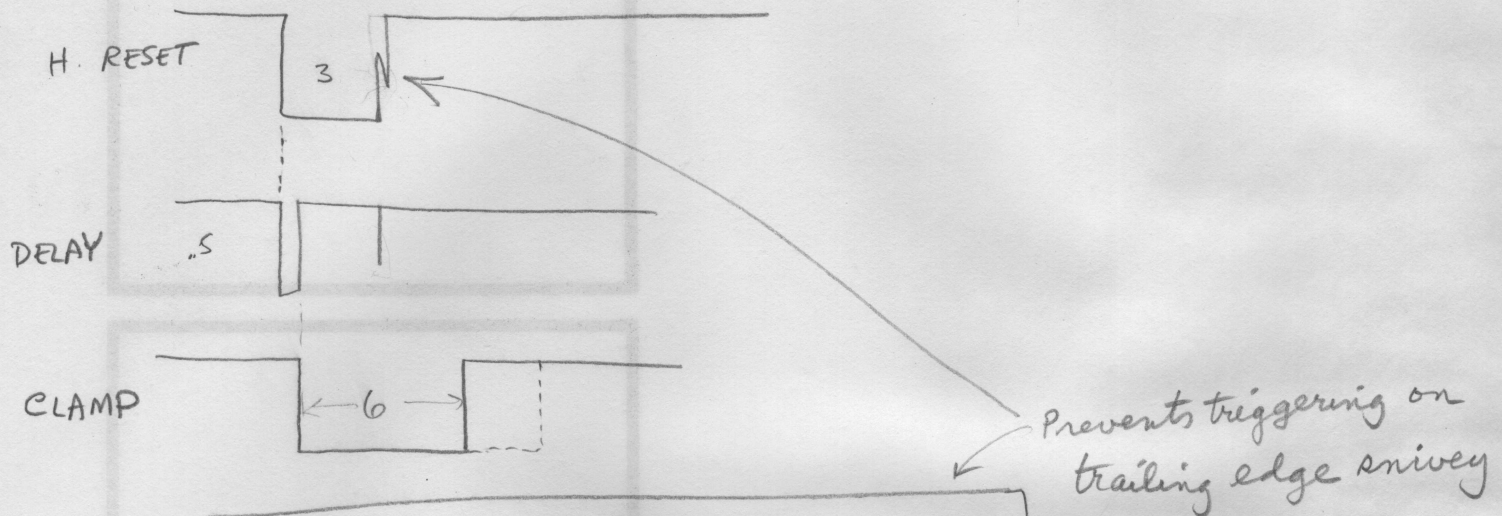
Wire IC1 ✓

Select R

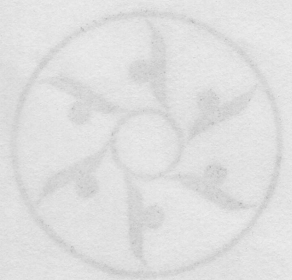


TEST	NI	RASTER
TEST	INV	OFF
		ON

SCANIMATE MVP
CVS-111



CUS-111





Filmline Production Associates, Inc., 1467 Tamarind Ave., Hollywood, Calif. 90028 (213) 466-4407

